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10/812,189

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EXAMINER

HEIBER, SHANTELL LAKETA

ART UNIT

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | | |
|------------------------------|--------------------------------------|---|--|
| Office Action Summary | Application No. 10/812,189 | Applicant(s) MYLLYMAKI ET AL. | |
| | Examiner Shantell Heiber | Art Unit 2617 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 October 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-38 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Response to Arguments

2. Applicant's arguments with respect to claims 1-38 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 2, 9, 10, 12, 13, 19, 25-27, 29, 31, 32 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sonti et al. (Sonti), U.S. Patent No. 6,108,540 in view of Ramalho et al. (Ramalho), U.S. Publication No. 2005/0037746.

Regarding Claims 1, 19, 31 and 32, Sonti discloses a method for controlling registration in a communication system, the method comprising: receiving a registration request for registration of a user relating to a subscriber in a network entity (**Col. 6, lines 45-67**); providing the network entity with control information indicating at least one limitation (**registration will not occur until it is verified that the mobile station is in the region served by the mobile switching center**) on registration allowed for the

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subscriber or the user (**Col. 7, lines 56-62**); and controlling the registration based on the control information (**Col. 7, line 56-Col. 8, line 18**).

Sonti fails to disclose providing the network entity with control information indicating at least one limitation on ***simultaneous*** registrations by the subscriber or the user, with respect to the number of users or addresses that can be registered.

In a similar field of endeavor, Ramalho discloses a multiple personality telephony devices. Ramalho further discloses providing the network entity with control information indicating at least one limitation on ***simultaneous*** registrations by the subscriber or the user, with respect to the number of users or addresses that can be registered (**device 12 provides for the simultaneous registration of multiple personalities with one or more service providers 14. Each personality 42 may be customized to be active at particular times and/or places (this can be a limitation on simultaneous registrations of personalities). For example, a selected personality 42 associated with a business telephone number may be configured to be active only during selected times of the day while another personality 42 associated with a personal number may be always active; [0016]-[0018] and [0028]**).

At the time of invention, it would have been obvious to a person of ordinary skill in the art to allow a subscriber to change the profile containing a different set of features for different users of the mobile station (Sonti-Abstract) wherein the mobile device may simultaneously register multiple telephony personalities with one or more service providers (Ramalho-[0011]).

Regarding Claim 2, the combination of Sonti and Ramalho discloses the method of claim 1 as described above.

The combination fails to disclose further comprising: determining that the subscriber comprises at least one other user. However, Ramalho discloses comprising: determining that the subscriber comprises at least one other user **(during operation, device 12 may register one or more personalities 42 with service providers 14 to provide wireless services for a user. These personalities 42 may be configured by users; [0028])**. Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to allow a subscriber to change the profile containing a different set of features for different users of the mobile station (Sonti-Abstract) wherein the mobile device may simultaneously register multiple telephony personalities with one or more service providers (Ramalho-[0011]).

Regarding Claims 9, 10, 25-27 and 29, the combination of Sonti and Ramalho discloses the method and communication system according to claims 1 and 19 as described above.

The combination fails to disclose further comprising: storing the control information in a user information storage entity which comprises a home subscriber server with at least one of said at least one limitation regarding simultaneous registrations allowed for subscribers. However, Sonti does mention a HLR and VLR as the home subscriber server that stores the registered subscriber's profile information **(Col. 5, lines 13-25)**. This information is used to determine whether registration will occur based on if the requesting mobile station is in the serving region (limitation) **(Col.**

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7, lines 56-62). Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to provide a means for storing subscriber's information in the network to be readily available when requesting registration.

Regarding Claims 12 and 13, the combination of Sonti and Ramalho discloses the method according to claim 9 as described above.

The combination fails to disclose further comprising: sending a request for subscriber information from said network entity to the user information storage entity and wherein the providing comprises providing the control information from the user information storage entity to said network entity. However, Sonti does mention the mobile switching center sending a request for information (Qualification Request) to the home location register (HLR) where the HLR responds with a (Qualification Request Return Result) along with the mobile station's profile data that is used to determine whether registration should occur **(Col. 7, lines 25-62)**. Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to provide a means for a method and communication within a telecommunications system to determine whether mobile stations should be registered.

Regarding Claim 38, the combination of Sonti and Ramalho discloses the method of claim 1 as described above.

The combination fails to disclose simultaneous registrations by the subscriber or user in relation to one network. However, Ramalho discloses simultaneous registrations by the subscriber or user in relation to one network **(mobile device 12 may simultaneously register multiple telephony personalities with one or more**

service providers 14; [0011]). Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to allow a subscriber to change the profile containing a different set of features for different users of the mobile station (Sonti-Abstract) wherein the mobile device may simultaneously register multiple telephony personalities with one or more service providers (Ramalho- [0011]).

5. Claims 3-8, 11, 14, 18, 20, 21, 28, 33 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sonti and Ramalho in view of D'Amico et al. (D'Amico), U.S. Patent No. 5,077,790.

Regarding Claims 3-8, 20, and 33, the combination of Sonti and Ramalho discloses the method, communication system and network entity according to claims 1, 19 and 32 as described above.

However, the combination fails to disclose further comprising: checking whether at least one of said at least one limitation on simultaneous registrations would be infringed by allowing the registration, further comprising: denying the registration when the checking step shows that at least one of said at least one limitation regarding the simultaneous registrations would be infringed by allowing the registration, further comprising: allowing the registration request when the checking shows that none of the at least one limitation on simultaneous registrations would be infringed by allowing the registration, further comprising: indicating with the control information a number of the simultaneous registrations allowed for the subscriber, further comprising: indicating with the control information a maximum number of the simultaneous registrations allowed for

the subscriber and further comprising: indicating with the control information a limitation on a service type allowed for the simultaneous registrations for the subscriber.

In a similar field of endeavor, D'Amico discloses a secure over-the-air registration of cordless telephones. D'Amico further discloses further comprising: checking whether at least one of said at least one limitation on simultaneous registrations would be infringed by allowing the registration (**Col. 3, lines 4-27**), further comprising: denying the registration when the checking step shows that at least one of said at least one limitation regarding the simultaneous registrations would be infringed by allowing the registration (**Col. 3, lines 4-27**), further comprising: allowing the registration request when the checking shows that none of the at least one limitation on simultaneous registrations would be infringed by allowing the registration (**Col. 3, lines 40-53**), further comprising: indicating with the control information a number of the simultaneous registrations allowed for the subscriber (**Col. 3, line 53-Col. 4, line 3**), further comprising: indicating with the control information a maximum number of the simultaneous registrations allowed for the subscriber (**Col. 3, line 53-Col. 4, line 3**) and further comprising: indicating with the control information a limitation on a service type allowed for the simultaneous registrations for the subscriber (**Col. 3, line 53-Col. 4, line 3**).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to monitor registrations based on subscriber's credentials or qualifying information and the amount of simultaneous registrations to prevent fraudulent activity.

Regarding Claims 18 and 37, the combination of Sonti and Ramalho discloses the method and network entity according to claims 1 and 32 as described above.

However, the combination fails to disclose further comprising: counting means configured to count the simultaneous registrations of the subscriber.

D'Amico discloses further comprising: counting means configured to count the simultaneous registrations of the subscriber **(Col. 3, line 63-Col. 4, line 3) (Although not disclosed, it is inherent that D'Amico's invention includes a counting means for determining the number of registrations).**

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to provide a means for determining if the maximum number allowed for registration has been reached to provide security measures for fraudulent activity.

Regarding Claims 11, 14, 21, and 28, the combination of Sonti, Ramalho and D'Amico discloses the method and communication system according to claims 3 and 20 as described above.

The combination fails to disclose wherein the checking comprises checking in a user information storage entity and wherein the checking comprises checking in the network entity. However, Sonti does mention the checking step comprising performing the check if the mobile station is in the region served by the mobile switching center **(Col. 7, line 59-Col. 8, line 18)**. Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to provide a faster and convenient means for checking if the registration request should be allowed.

6. Claims 15-17, 22-24, 30, and 34-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sonti and Ramalho in view of Herrero et al. (Herrero), U.S. Publication No. 2005/0009520.

Regarding Claims 15-17, 22-24, and 34-36, the combination of Sonti and Ramalho discloses the method, communication system, and network entity according to claims 1, 19 and 32 as described above.

However, the combination fails to disclose wherein said receiving comprises receiving the registration request in at least one of a serving controller, an interrogating controller, or an entity of an internet protocol multimedia core network subsystem, the receiving comprises receiving the registration request in the serving controller, and wherein the serving controller comprises a serving call session control function, receiving comprises receiving the registration request in the interrogating controller, and wherein the interrogating controller comprises an interrogating call session control function.

In a similar field of endeavor, Herrero discloses a method and system for handling multiple registration. Herrero further discloses wherein said receiving comprises receiving the registration request in at least one of a serving controller, an interrogating controller, or an entity of an internet protocol multimedia core network subsystem **[0072, 0073, 0075 and 0078]**; the receiving comprises receiving the registration request in the serving controller, and wherein the serving controller comprises a serving call session control function **[0078 and 0079]**, receiving comprises

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receiving the registration request in the interrogating controller, and wherein the interrogating controller comprises an interrogating call session control function [0075].

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to allow for a simplified signaling flow of a registration process [Herrero-0072].

Regarding Claim 30, the combination of Sonti and Ramalho discloses the communication system according to claim 25 as described above.

However, the combination fails to disclose wherein a serving controller comprises the storing unit.

Herrero discloses wherein a serving controller comprises the storing unit [0079].

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to provide a simple, faster and convenient registration process.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sobti et al., U.S. Patent No. 5,553,315 discloses a method of maintaining access authorization using a bulletin board communication resource.

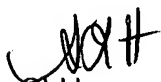
Sanmugam, U.S. Patent No. 5,978,669 discloses a method of detecting fraud in a radio communications network by analyzing activity, identification of RF channel data for mobile stations in the network.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shantell Heiber whose telephone number is 571-272-0886. The examiner can normally be reached on Monday-Friday 7:00am-3:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on 571-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


SLH


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